

SHASHWAT JOHRI

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EDUCATION

B.Tech. Computer Science, Indian Institute of Technology (IIT), Bhilai

July 2020- May 2024

CGPA : 9.46/10.0

Relevant Coursework: Computer System Design, ML, Data Structures, Algorithms, AI, NLP, DBMS, OS, CN

Volunteer Positions: Coordinator - Quizzing club 2021-22, Core Member - Google Developer Student Club, Member - Literary and Debate Society.

EXPERIENCE

Summer Intern

May 2023 - July 2023

C-DAC - Pune

Location - remote

- Used **Road Vector data** to identify and prioritize **accident hotspots** for PM Gram Sadak Yojana.
- Showcased **Python proficiency** by implementing research papers. Reproduced **81% accuracy** in road curve classification.
- Employed libraries like Pandas, GeoPandas, Matplotlib, and Shapely to clean, manipulate, and extract features from GIS road and accident data.
- Utilized statistical concepts such as hazard ratio, p-value, and Bayes factor to quantify the risk of dangerous roads.

PROJECTS

Campus Food Delivery App [Node.js, MongoDB] ([Github](#)) ([Live](#))

Led the project for a microservice architecture based food delivery app for IIT Bhilai. Designed and implemented the ordering service endpoints using Express, MongoDB and socket.io. Implemented the login service endpoints incorporating JWT for authorization. ML based food recommendation system using flow which keeps improving with new data. Tested various services using Mocha.

Downloadify - Spotify Downloader [React, Node.js] ([Github](#)) ([Live](#))

Built an App to **fetch all of users' Spotify songs** and allow them to choose and **download multiple songs** with a Spotify inspired UI. Used Node.js for authentication with Spotify and React for front-end. Utilized the Youtube API for searching and downloading songs.

Banking Chatbot[Flask, Function calling LLM, jqueury, python]

Built **voice chatbot** for banking application that recognizes natural language and responds using LLM. Used vosk to convert audio to text which is fed to **Llama model nexusraven in order to derive intent** of the user and trigger the required API calls for fetching bank details or transferring money.

SKILLS & INTERESTS

Technical Python, Node.js, C++, JavaScript, React, SQL

Tools Git, Unix CLI tools, Shell Scripting, LaTeX, Mocha

Interests Algorithms, Data Science, Machine Learning, Web Development

Soft Skills Public Speaking, Leadership, Quick Learning, Resourceful, Detail Oriented

Hobbies Competitive Programming, Quizzing, Speed Typing, Speed Cubing, Swimming, Football, Chess

ACCOMPLISHMENTS

- **All India Rank 89**: ICPC Kanpur-Mathura 2023 Qualifier Round [C++]. **ICPC Regionalist(×2)**.
- **Rank 148 among 2168 participants** Codechef Starters 93 Division 2 [C++].
- **All India Rank 898**: Google Kickstart Round E 2022 [C++].
- Solved **700+ problems** on platforms like Leetcode, Codechef(**Max Rated 1950, 4 stars**), Codeforces (**Specialist**), etc.
- **First place in Automation challenge** by Google Developer Student Club, IIT Bhilai [**Python,OpenCV**].
- **All India Rank 4300**: Joint Entrance Examination (JEE) - Advanced 2020 (Total **1.5 Million candidates**).
- **First Place** in National Finals: 'FUNancial Quest' Season 6 - Annual Financial Quiz Held at **NSE, Mumbai HQ** and broadcast on CNBC-TV-18. Obtained a cash Prize of Rs. 1 Lakh.

LEADERSHIP

- **Quizmastered** and coordinated the conduction of **“ExQuiZite 3.0”**: The Pan India **flagship Quizzing Event** of IIT Bhilai. Managed a team of 20 students. Attracted participation from 200+ students from several top colleges of India.
- **Led a team** of 10+ students to conduct the first **offline Quizzing event** in IIT Bhilai after COVID Lockdown- **“Quark 2022”**.